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### 1 [XSLT for tailored access to a digital video library](#)



Michael G. Christel, Bryan Maher, Andrew Begun

 January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(892.07 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Surrogates, summaries, and visualizations have been developed and evaluated for accessing a digital video library containing thousands of documents and terabytes of data. These interfaces, formerly implemented within a monolithic stand-alone application, are being migrated to XML and XSLT for delivery through web browsers. The merits of these interfaces are presented, along with a discussion of the benefits in using W3C recommendations such as XML and XSLT for delivering tailored access to ...

**Keywords:** XML, XSLT, digital video library, surrogate

### 2 [Education and training: An XML-based approach to multimedia software engineering for distance learning](#)



T. Arndt, S. K. Chang, A. Guercio, P. Maresca

 July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**

Publisher: ACM Press

Full text available: pdf(95.53 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#)

Multimedia Software Engineering (MSE) is a new frontier for both Software Engineering (SE) and Visual Languages (VL). In fact multimedia software engineering can be considered as the discipline for systematic specification, design, substitution and verification of visual patterns. Visual Languages contribute to MSE such concepts as: Visual notation for software specification, design and verification flow charts, ER diagrams, Petri Nets, UML visualization, visual programming languages etc. Multim ...

### 3 [Session 3: Stylesheet transformations for interactive visualization: towards a Web3D chemistry curricula](#)



Nicholas F. Polys

 March 2003 **Proceeding of the eighth international conference on 3D Web technology**


**Publisher:** ACM Press

Full text available:  pdf(574.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recent Standards specifications offer important but underemployed techniques to maximize access-to and distribution-of information for real-time 3D visualization over the web. This paper describes and evaluates such techniques to transform structured data such as Chemical Markup Language (CML) to different forms and contexts for Web3D delivery using Extensible Stylesheet Transformations (XSLT), Extensible 3D (X3D), and VRML97. Standards design approaches offer a number of advantages: data durabi ...

**Keywords:** education, information visualization, interactive 3D graphics, molecular chemistry

#### 4 Document Databases: Requirements for XML document database systems


 Airi Salminen, Frank Wm. Tompa  
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**  
**Publisher:** ACM Press

Full text available:  pdf(141.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The shift from SGML to XML has created new demands for managing structured documents. Many XML documents will be transient representations for the purpose of data exchange between different types of applications, but there will also be a need for effective means to manage persistent XML data as a database. In this paper we explore requirements for an XML database management system. The purpose of the paper is not to suggest a single type of system covering all necessary features. Instead the pur ...

**Keywords:** XML, XML database systems, data definition, data manipulation, data modelling, structured documents

#### 5 1a---Links and Navigation: The look of the link - concepts for the user interface of extended hyperlinks

 Harald Weinreich, Hartmut Obendorf, Winfried Lamersdorf  
September 2001 **Proceedings of the twelfth ACM conference on Hypertext and Hypermedia**  
**Publisher:** ACM Press

Full text available:  pdf(307.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The design of hypertext systems has been subject to intense research. Apparently, one topic was mostly neglected: how to visualize and interact with link markers.

This paper presents an overview of pragmatic historical approaches, and discusses problems evolving from sophisticated hypertext linking features. Blending the potential of an XLink-enhanced Web with old ideas and recent GUI techniques, a vision for browser link interfaces of the future is being developed. We hope to stimula ...

**Keywords:** Web, XLink, distributed hypertext, link marker, user interface

#### 6 Special section on advanced XML data processing: Preservation of digital data with self-validating, self-instantiating knowledge-based archives

 Bertram Ludäscher, Richard Marciano, Reagan Moore  
September 2001 **ACM SIGMOD Record**, Volume 30 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(881.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Digital archives are dedicated to the long-term preservation of electronic information and have the mandate to enable sustained access despite rapid technology changes. Persistent archives are confronted with heterogeneous data formats, helper applications, and platforms being used over the lifetime of the archive. This is not unlike the interoperability challenges, for which mediators are devised. To prevent technological obsolescence over time and across platforms, a migration approach for per ...

## 7 Electronics books for technical learning: Advanced modeling and browsing of technical documents



François Bry, Michael Kraus

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

**Publisher:** ACM Press

Full text available:  pdf(466.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article proposes three techniques for improving the modeling and browsing of electronic books for technical documents specified in XML. Technical documents are for two reasons prime applications for electronic books. First, electronic devices are nowadays widely used for the distribution, storage, and updating of such documents. Second, since most technical documents have rather complex semantics and structure, they might be easier to consult as electronic books with their advanced function ...

**Keywords:** XML, adaptive document, annotation, hypertext, technical document

## 8 A constraint extension to scalable vector graphics



Greg J. Badros, Jojada J. Tirtowidjojo, Kim Marriott, Bernd Meyer, Will Portnoy, Alan Borning  
April 2001 **Proceedings of the 10th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  pdf(364.10 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** CSVG, SVG, constraints, differential scaling, interaction, scalable vector graphics, semantic zooming

## 9 Session 3: XML applications: Regulating access to SMIL formatted pay-per-view movies



Naren Kodali, Duminda Wijesekera

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

**Publisher:** ACM Press

Full text available:  pdf(331.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML [15] has become a standard format for information that moves within the World Wide Web. Previous work in securing XML documents concentrated mainly on textual documents. Those proposals are ineffective in the context of multimedia, which mostly comprises of some sensible combination of images, text, audio, and video. As multimedia constitutes a significant component of the traffic within the Internet, it requires to be secured. We propose an access control model and an encryption mechanism t ...

**Keywords:** SMIL, XML, access control, encryption, integrity, pay-per-view, smart card, synchronized multimedia

10 Q focus: semi-structured data: XML <and semi-structured data>

C. M. Sperberg-McQueen

October 2005 **Queue**, Volume 3 Issue 8**Publisher:** ACM Press

Full text available: pdf(222.30 KB)

html(32.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

**XML**, as defined by the World Wide Web Consortium in 1998, is a method of marking up a document or character stream to identify structural or other units within the data. XML makes several contributions to solving the problem of semi-structured data, the term database theorists use to denote data that exhibits any of the following characteristics: •Numerous repeating fields and structures in a naive hierarchical representation of the data, which lead to large numbers of tables in a sec ...

11 Ubiquitous WWW: Profiles for the situated web

Lalitha Suryanarayana, Johan Hjelm

May 2002 **Proceedings of the 11th international conference on World Wide Web****Publisher:** ACM Press

Full text available: pdf(263.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The World Wide Web is evolving into a medium that will soon make it possible for conceiving and implementing situation-aware services. A situation-aware or situated web application is one that renders the user with an experience (content, interaction and presentation) that is so tailored to his/her current situation. This requires the facts and opinions regarding the context to be communicated to the server by means of a profile, which is then applied against the description of the application o ...

**Keywords:** CC/PP, XML, profiles, situated-aware applications, vocabulary, web architecture

12 EIHA?!?: deploying Web and WAP services using XML technology

Chiara Biancheri, Jean-Christophe Pazzaglia, Gavino Paddeu

March 2001 **ACM SIGMOD Record**, Volume 30 Issue 1**Publisher:** ACM Press

Full text available: pdf(744.53 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

The exponential growth of resources on the web, and the wide deployment of devices for multimodal access to the Internet, lead to new problems in information management. In this context, and as part of the European project Vision, we have built an interactive telematic handbook of the culture and the territory of Sardinia. A team of cultural experts browsed the web to get a large collection of Internet resources. The system built for the management of this data uses emerging Internet technologies ...

**Keywords:** DBMS, DTD, WAP, WML, XML, XSL, metadata, search engine

13 Digital libraries and cyberinfrastructure track: creating information representations for the humanities (part 2): E-library of medieval chant manuscript transcriptions

Louis W. G. Barton, John A. Caldwell, Peter G. Jeavons

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries****Publisher:** ACM Press

Full text available: pdf(668.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present our rationale and design principles for a *distributed e-library* of medieval chant manuscript transcriptions. We describe the great variety in *neumatic*

notations, in order to motivate a standardised data representation that is *lossless* and universal with respect to these musical artefacts. We present some details of the data representation and an XML Schema for describing and delivering transcriptions via the Web. We argue against proposed data format ...

**Keywords:** XML, chant, comparison, data representation, digital libraries, medieval manuscripts, musical notation, search, transcription

#### 14 Live documents with contextual, data-driven information components



Anke Weber, Holger M. Kienle, Hausi A. Müller

October 2002 **Proceedings of the 20th annual international conference on Computer documentation**

**Publisher:** ACM Press

Full text available: pdf(627.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce the notion of a live document and we describe our concept of live documents with contextual, data driven information components. The dynamic and interactive features of live documents provide a consistent data source for multimedia presentations targeted to various audiences and multiple platforms. Therefore, they contribute to the solution of key challenges in single sourcing and repurposing. We motivate the use of live documents with sample scenarios from the field of systems docu ...

**Keywords:** Microsoft Office, live documents, repurposing, reverse engineering, scalable vector graphics, single sourcing, software engineering, systems documentation

#### 15 A platform for the description, distribution and analysis of genetic polymorphism data

Greg D. Tyrelle, Garry C. King

January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19 CRPITS '03**

**Publisher:** Australian Computer Society, Inc.

Full text available: pdf(174.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we suggest the requirements for an open platform designed for the description, distribution and analysis of genetic polymorphism data. This platform is discussed in terms of our implementation of a phenotypic prediction pipeline with general application to the understanding of genetic variation. The current state of polymorphism data storage and distribution has several recognised deficiencies. These include the lack of a shared data model and low overlap between databases. To move ...

**Keywords:** RDF, SNP, XML, database, distributed, web services

#### 16 Paper session 1: web querying and mining: Querying bi-level information



Sudarshan Murthy, David Maier, Lois Delcambre

June 2004 **Proceedings of the 7th International Workshop on the Web and Databases: colocated with ACM SIGMOD/PODS 2004 WebDB '04**

**Publisher:** ACM Press

Full text available: pdf(778.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In our research on superimposed information management, we have developed applications where information elements in the superimposed layer serve to annotate, comment, restructure, and combine selections from one or more existing documents in the base layer. Base documents tend to be unstructured or semi-structured (HTML pages, Excel spreadsheets, and so on) with marks delimiting selections. Selections in the base

layer can be programmatically accessed via marks to retrieve content and context. ...

**Keywords:** SPARCE, bi-level queries, information integration, superimposed information management

### 17 Linking documents: An open linking service supporting the authoring of web



#### documents

Renato Bulcao Neto, Claudia Akemi Izeki, Maria da Graça Pimentel, Renata Pontin Fortes, Khai Nhut Truong  
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**  
**Publisher:** ACM Press

Full text available: pdf(447.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Both content driven web authors and application designers may have their attention deviated from their main task when they have to be concerned with the generation of elaborated linking structures. This work aims to demonstrate how a metadata-enhanced web-based open linking service can be exploited towards supporting content driven authors in their tasks. The following results are presented in this paper: (a) the Web Linking Service (WLS), a novel open hypermedia system that stores and exchanges ...

**Keywords:** RDF-based metadata, content driven authoring, document engineering, open linking service, web engineering

### 18 Evolving the browser towards a standard user interface architecture

Michael J. Rees  
January 2002 **Australian Computer Science Communications , Third Australasian conference on User interfaces - Volume 7 CRPITS '02**, Volume 24 Issue 4  
**Publisher:** Australian Computer Society, Inc. , IEEE Computer Society Press

Full text available: pdf(857.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

If current trends continue, it is likely that the web browser will become the only widely used user interface. Web applications will become the predominant software. Should this happen, user interface design, implementation and evaluation skills can become more focussed and effective. Some of the benefits current browser user interfaces provide are discussed in the context of web application tools produced by the author and supported by examples. The software architecture of the Web brings speci ...

**Keywords:** XML, browser user interface, user interface markup language, user interface standards

### 19 Multimedia: Towards a multimedia formatting vocabulary



Jacco van Ossenberg, Lynda Hardma, Joost Geurts, Lloyd Rutledge  
May 2003 **Proceedings of the 12th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available: pdf(189.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Time-based, media-centric Web presentations can be described declaratively in the XML world through the development of languages such as SMIL. It is difficult, however, to fully integrate them in a complete document transformation processing chain. In order to achieve the desired processing of data-driven, time-based, media-centric presentations, the text-flow based formatting vocabularies used by style languages such as XSL, CSS and DSSSL need to be extended. The paper presents a selection of u ...

**Keywords:** Cuypers, document transformation, formatting objects, hyper-media, multimedia

20 Industrial papers: databases and service oriented architectures: Model-driven design



of service-enabled web applications

Marco Brambilla, Stefano Ceri, Piero Fraternali, Roberto Acerbis, Aldo Bongio

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data**

**Publisher:** ACM Press

Full text available: pdf(379.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Significant efforts are currently invested in application integration to enable the interaction and composition of business processes of different companies, yielding complex; multi-party processes. Web service standards, based on WSDL, have been adopted as a process-to-process communication paradigm. This paper presents an industrial experience in integrating data-intensive and process-intensive Web applications through Web services. Design of sites and of Web services interaction exploits mode ...

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